INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/019127

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl' F01N3/08, F01N3/36, F02M51/06, F02M69/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ F01N3/08, F01N3/36, F02M51/06, F02M69/00		
Documentation searched other than minimum documentation to the extent that such documents are included Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koh	1994-2005	
Electronic data base consulted during the international search (name of data base and, where practicable, se	earch terms used)	
TO BY DELEVANT		
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
	1,2,5-9	
Y JP 2003-529012 A (Massachusetts Institute 32 A Technology), 30 September, 2003 (30.09.03), Full text; all drawings & WO 2001/014698 A1 & WO 2003/027005 A1 & US 2002/0194835 A1	3,4	
Y JP 2002-61556 A (Shigeru NAGANO), 28 February, 2002 (28.02.02), Fig. 1 (Family: none)	1,2,5-9	
y JP 2001-317360 A (Shigeru NAGANO), 16 November, 2001 (16.11.01), Fig. 5 (Family: none)	1,2,5-9	
X Further documents are listed in the continuation of Box C. See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered "A" later document published after the date and not in conflict with the principle or theory underly	f cited documents: State document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
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"L" document which may throw doubts on priority claims of which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevation or other considered to involve an in special reason (as specified)	date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is considered with one or more other such documents, such combination	
*O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person ski document published prior to the international filing date but later than the priority date claimed document member of the same	ned to the sut	
Date of the actual completion of the international search 11 March, 2005 (11.03.05) Date of mailing of the international search 29 March, 2005	onal search report (29.03.05)	
Name and mailing address of the ISA/ Japanese Patent Office Telephore No.		

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PCT/JP2004/019127

G-4). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No	
A	JP 2002-233733 A (Toshiba Corp.), 20 August, 2002 (20.08.02), Par. No. [0035]; Fig. 4 (Family: none)	1-9	
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